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The Director of Central Intelligence Washington, D.C. 20505

Intelligence Research and Development Council

INTELLIGENCE SOURCES AND METHODS INVOLVED 6 May 1981

	DR: Deputy Director of Central Intelligence	
FROM:	Executive Director	2
SUBJECT:	A Status Report	
of Defense for him to assume Council. How	are still awaiting confirmation of Dr. DeLauer as Under Secretary or Research and Engineering so that we may extend an invitation for the Chairmanship of the Intelligence Research and Development vever, in the meantime, I thought you might be interested in a tain on-going Council activities. (C)	y v
a.	Second National Digital Imagery Symposium	
the COM las 60 inc ste com	Two years ago the Council sponsored a National Digital Imagery ocessing and Exploitation Symposium. The symposium was staffed by Exploitation Research and Development Subcommittee (EXRAND) of MIREX. The symposium was held at NPIC, had about 200 attendees, sted a week, and consisted of numerous sessions and tours with over papers being presented by members of the Federal Government, dustry and academia. In the wrap-up report of the symposium sering group, it was recommended that future symposiums be held to attinue the exchange of digital imagery technology among the many verse participants involved in imagery processing and exploitation.	
wil eit EXR	I have asked the members of the Council to offer me their views sponsoring a second symposium (Attachment A). If they agree, I l draft a tasking letter to the Chairman, EXRAND, to be signed by ther Dr. DeLauer, if he is on board, or if not, for your release. AND would like to commence their work some time this month with a riget date for the symposium of October or November. (S)	
b.	DCI STAP/IR&DC Technology Trends Colloquium	
STI Tec	I have had preliminary discussions with Chairman, C, concerning the possibility of having a combined DCI STAP/IR&DC hnology Trends Colloquium on emerging technologies for the late	
198	Os. believes such a joint venture might be profitable and	2
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SUBJECT: A Status Report

will discuss the proposal with the Chairman, STAP, who in turn will talk to the new Chairman, IR&DC. The benefit of such a joint venture would be to couple and focus scientific opinions from within, as well as exterior to, the Intelligence Community on what developing technologies may be able to increase our intelligence capabilities. (C)

c. Future Technological Advancements

In the vein of identifying what opportunities emerging technologies may offer for increasing our future capabilities, I have had the Council members outline what their perceptions are for the future. Six areas have been identified where major changes are forecast:

- o Solid State Electronic Technology
- o Computer Technology
- o Space Science
- o Sensors and Antenna Technology
- o Human Performance
- o Laser Technology. (S)

The attached listing (Attachment B) indicates more specifically within these areas where advancements may occur. I intend to discuss these projections with the new chairman to suggest how the Council might seek out and keep aware of advancements within these fields for possible use by the Intelligence Community. (C)

d. New IR&DC Initiatives

The following are several new initiatives which may be sponsored by the Council. These initiatives will tend to provide for more community cohesiveness in our Research and Development Programs and at the same time provide for tangible reward for our intelligence scientific personnel.

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The Council will:

- o Sponsor a DCI Scientific Fellowship Program.
- o Sponsor Periodic National Intelligence R&D Symposium.
- o Sponsor a yearly DCI Exceptional Scientific Awards Program.
- o Sponsor a DCI Distinguished Scientific Speaker Program.
- o Provide recommendations to the DCI concerning NFIP R&D programs which will be issued in the annual DCI NFIP Program Guidance. (C)
- 2. The above outlines Council considerations which are now being formulated, but of course are subject to your guidance and direction. I understand that Dr. DeLauer's confirmation may occur in the next few weeks. $S \cap S$

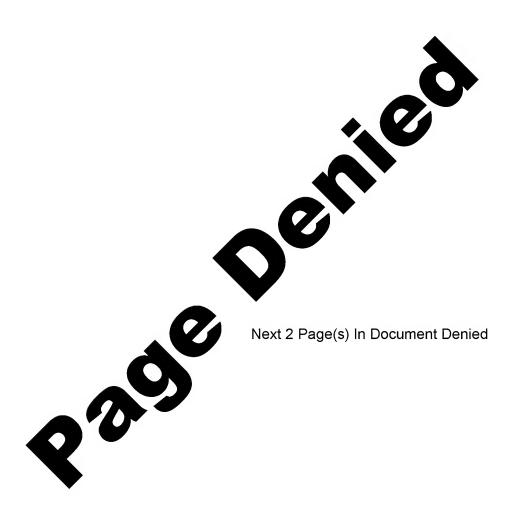
Attachments:

- A. Memo for Distribution, Subj: A Second National Digital Imagery Symposium dtd 1 May 81 (ICS 81-0705)
- B. Future Technological Advances

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The Director of Central Intelligence Washington, D.C. 20505 Intelligence Research and Development Council ICS 81-0705 1 May 1981 MEMORANDUM FOR: Distribution	25X1 25X1
Washington, D.C. 20505 Intelligence Research and Development Council ICS 81-0705 1 May 1981 MEMORANDUM FOR: Distribution FROM: Executive Director	
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Executive Director	
SUBJECT: A Second National Digital Imagery Symposium	25X1
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of COMIREX soliciting Council sponsorship of a second National Symposium on Digital Imagery Processing and Exploitation sometime this coming fall. EXRAND would staff the symposium with Council assistance and guidance. The first symposium was held in October 1979 at NPIC, had close to 200 attendees, lasted for a week, and consisted of numerous sessions and tours with over 60 papers being presented. By all accounts the symposium was a success and the steering committee in their wrap-up report recommended that future symposiums be held to continue the exchange of digital imagery technology advancements among the many diverse participants involved in imagery processing and exploitation. 2. I believe this is a worthwhile Community project for the Council to continue to sponsor and suggest that we endorse the EXRAND proposal. Therefore will you please provide me your views on this matter by 11 May, and if we agree that a second symposium will be useful, then appropriate tasking will be issued	
to EXRAND so that they may commence their planning.	
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cc: Deputy Director of Central Intelligence Under Secretary of Defense for Research and Engineering-Designate (Dr. DeLauer)	
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Computer Technology

Future computer technology advancements will provide levels of magnitude of increase in the speed of data manipulation and data retrieval. This will be permitted by marked improvements in very high speed integrated circuitry and very large scale integration. Areas to be affected by these new capacities will include:

- o progress towards the development of artificial intelligence
- o better use of robotics
- o enhanced management science application techniques
- o increased optical and recording processing and storage technology
- o more interactive computer graphic design
- o different ways of software engineering
- o new voice input/output technology consisting of:
 - -- computer recognizable 1000 world vocabularies
 - -- improvements using VHSIC and VLSI to:
 - speedily machine-gist text and conversations
 - provide an effective environment for transcriptions, for example digital filters, random search on words and the search of the previous day's intercept
 - develop machine-aided translations to improve productivity of scarce linguistic resources and reduce training time
 - continue the development of wordspotting systems to include the development of a reliable speech detection algorithum. (C)

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